Mathematics
Parent's Guide

Familiarisation

Sourced from SATs-Papers.co.uk

GL Assessment

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Mathematics

The real 11+ mathematics tests assess mathematics in line with the new National Curriculum and cover a variety of curriculum areas taught in schools up to the start of Year 6. The areas assessed typically include aspects of number, measurement, geometry and statistics. Some questions involve using current mathematical skills to solve new kinds of mathematical problems.

About the Familiarisation Papers

The Mathematics Familiarisation papers are designed to familiarise your child with the type of content in the real 11+ tests. The papers are presented in a very similar way to many of the test papers used for selection at 11+. They provide practice in answering different types of mathematical questions used in real 11+ tests and practice in recording answers on the separate answer sheet. The papers may not be exactly the same difficulty level as the real tests, as the difficulty level varies between schools.

Resources

Your child will need the following materials:

- **Mathematics Familiarisation 1 or 2 booklet**
- **Mathematics Familiarisation 1 or 2 answer sheet**
- **A pencil**: for the real 11+ tests, the answer sheets will need to be completed in pencil (not ink, felt-tip etc.) so they can be read by the computer.
- **A rubber** to change answers. Crossing out or placing an X next to the unintended answer on the answer sheet cannot be computer-marked.

Note: calculators must **not** be used (use of a calculator is **not** allowed in the real 11+ tests).

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Working through the Papers

For the real 11+ tests, your child will need to: read the instructions on the front of the test paper; listen carefully to the instructions read out by the invigilator; observe the messages at the bottom of the test paper telling you to go on to the next page or stop; and check/fill in the details at the top of the separate answer sheet.

Give your child the paper at an appropriate time, when they are both physically and mentally alert. Choose a suitable area for them to work in – make sure they can work comfortably and are free from any distractions.

Before your child takes a familiarisation paper, discuss with them the reasons they are doing the paper. Also, explain that they might find some of the questions difficult but that they should work as quickly and as carefully as they can. If they get stuck on a question, they should not waste too much time on it but move on to the next one. Encourage your child to work through each question independently.

Your child should mark their answers on the separate answer sheet provided. The real 11+ test will be marked by a computer, but it is important for your child to learn how to use the answer sheet properly in preparation for the real test. They should mark their answer in the appropriate box by drawing a clear line through it with a pencil. Mistakes should be rubbed out carefully, **not** crossed out, since in the real test this would not be recorded correctly by the computer. You can ignore the boxes at the top of the answer sheet marked 'Pupil Number', 'School Number' and 'Date of Birth'. Your child will be required to fill in or check these details in the real test, but it is not necessary for familiarisation purposes.

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Timing the Papers

The real 11+ tests are timed but, for familiarisation purposes, give your child as much time as they need to complete each paper. If you do wish to time your child, however, allow 50 minutes to complete the questions.

Marking and Feedback

The correct answers to the Mathematics Familiarisation Papers are provided on the following pages. Only these answers are allowed. One mark should be given for each correct answer – half marks should not be given. When you mark the papers you will be able to see how many questions your child got right overall. This will give you a good indication of their strengths and weaknesses. You may wish to go back over any questions your child got wrong and work through them together.

Answer Key

Mathematics Familiarisation 1

1. 5109
2. 6
3. 7 thousands
4. (1 , 6)
5. 366
6. 6
7. 1.45 m
8. $\frac{1}{3}$
9. 1
10. 19
11. 0.3 l
12. 7.5 hours
13. 8 weeks
14. 18
15. 10 cm
16. 37
17. 55 min
18. (2 , 5)
19. 60 mph
20. A
21. 16 min
22. 10%
23. 4 weeks
24. 39 p
25. D
26. 5
27. 15 min
28. £3.50
29. 36
30. 1875
31. 24
32. 7920
33. D
34. 40.5°C
35. A
36. 4 kg
37. 9
38. 18 boys
39. 30
40. 12
41. 4.102
42. B
43. 6.25
44. 37 crates
45. 8 hours
46. 27
47. walk
48. 8 times
49. 13 runs
50. rectangle

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Answer Key

Mathematics Familiarisation *2*

1. 18 coins
2. July
3. 8650
4. 04:00
5. (2 , 1)
6. 8025
7. 60
8. $\frac{1}{8}$
9. 3 tens
10. 6
11. 55
12. 10 cm
13. 180°
14. 3
15. 25
16. 15°C
17. 54
18. 4
19. 8
20. £21.05
21. C
22. £3.90
23. 20
24. B
25. 4.10pm
26. 5 → 2
27. 18 m
28. £9360
29. ACDF
30. 850 g
31. £6.00
32. (2 , 6)
33. 24
34. 12 cm^3
35. 45p
36. 7.82
37. 40°
38. 8 hours 52 minutes
39. 2.50 kg
40. $42.50
41. 19.71
42. $500 - 6x$
43. (5 , 2) and (1 , 6)
44. £140
45. $\frac{17}{10}$
46. $2a + 2b$
47. 64
48. 240
49. $4x + 2$
50. 180 children

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